

Title (en)  
SYSTEM FOR VEHICLES WEIGHT PRESELECTION AND EVALUATION OF THE TECHNICAL STATE OF ROAD INFRASTRUCTURE

Title (de)  
SYSTEM ZUR FAHRZEUGGEWICHTSVORAUSWAHL UND BEURTEILUNG DES TECHNISCHEN ZUSTANDS EINER STRASSENINFRASTRUKTUR

Title (fr)  
SYSTÈME POUR PRÉSÉLECTION DE POIDS DE VÉHICULE ET ÉVALUATION DE L'ÉTAT TECHNIQUE D'UNE INFRASTRUCTURE ROUTIÈRE

Publication  
**EP 3187838 A1 20170705 (EN)**

Application  
**EP 15460112 A 20151229**

Priority  
EP 15460112 A 20151229

Abstract (en)  
A system for weight preselection and evaluation of the technical state of road infrastructure, in particular a bridge, is characterized in that it comprises a control unit, a set of the strain sensors (1) connected wirelessly or by wire to the control unit and placed in a roadway, and at least one camera (5) connected wirelessly or by wire to the control unit and placed over the road lane (3). The values of pressure exerted on each sensor (1), and of time interval between successive peaks of pressure from each sensor (1) are measured. The camera (5) placed above the road lane makes an image of the front of the vehicle, and the vehicle is automatically identified based on the images recorded by the camera (5). The result of identification is recorded in a data file identifying the vehicle. The speed and the number of axles of the vehicle are determined from the peaks of pressure and time intervals between successive peaks. The value of load on each axle of the vehicle is calculated, as well as the axle overload value equal to the difference between the load on given axle and the threshold. The calculated values are attributed to the data file identifying the vehicle, and the vehicles for which the calculated value of difference between the load on each axle and the threshold value is greater than zero are selected. Also the vehicles for which the measured speed is greater than a threshold value can be selected.

IPC 8 full level  
**G01G 19/02** (2006.01)

CPC (source: EP)  
**G01G 19/024** (2013.01)

Citation (applicant)  

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Citation (search report)  

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